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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/530,164	04/04/2005	Susanne Binder	TIS-104	5602
44590	7590 11/03/2006		EXAMINER	
ARENDT & ASSOCIATES INTELLECTUAL PROPERTY GROUP P.O. BOX 299 HARVARD, MA 01451-0299			KIM, TAEYOON	
			ART UNIT	PAPER NUMBER
	,		1651	
			DATE MAILED: 11/03/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application No.	Applicant(s)	•			
Office Action Summary		10/530,164	BINDER ET AL.				
		Examiner	Art Unit				
		Taeyoon Kim	1651				
Period fo	The MAILING DATE of this communication reply	n appears on the cover sheet	with the correspondence ad	ldress			
WHIC - Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR FOR THE VER IS LONGER, FROM THE MAILIN nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicati to period for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUN CFR 1.136(a). In no event, however, may on. period will apply and will expire SIX (6) Mi statute, cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on						
·—		This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the							
٠,٠	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims	, ,					
4)⊠	I)⊠ Claim(s) <u>1-52</u> is/are pending in the application.						
- / 🗀	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
	Claim(s) is/are rejected.						
7)	Claim(s) is/are objected to.						
·	Claim(s) <u>1-52</u> are subject to restriction an	d/or election requirement.					
	ion Papers	•					
· · _	•	ominor					
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
				ED 1 101/d)			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
	under 35 U.S.C. § 119	TIC Examiner. Note the attach	ed Office Action of form Fi	10-132.			
	•						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority docu		· · · ——	•			
	.3. Copies of the certified copies of the		n received in this National	Stage			
* (application from the International B	•	• • • • • • • • • • • • • • • • • • •				
•	See the attached detailed Office action for	a list of the certified copies no	л received.				
Attachmen	t(s)						
	e of References Cited (PTO-892)		Summary (PTO-413)				
	e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO/SB/08)		o(s)/Mail Date f Informal Patent Application				
	r No(s)/Mail Date	6) Other: _					

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DETAILED ACTION

Claims 1-52 are pending.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 3.1 and 37 CFR 1.475.

In accordance with these rules, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-26, drawn to a composite.

Group II, claims 27-32, drawn to a kit comprising the composite.

Group III, claims 33 and 34, drawn to a method of making a composite.

Group IV, claims 35-39, drawn to a method of inducing an excised or cultured retinal pigment epithelial cells or retinal pigment epithelial equivalent cells.

Group V, claims 40 and 50-52, drawn to a use of human amniotic membrane.

Group VI, claim 41, drawn to a method of delivering a plurality of retinal pigment epithelial cells.

Group VII, claims 42-49, drawn to a method for treating a retinal disease using the composite.

(a) An international or national stage application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept. Where a group of inventions is claimed in an application, the requirement of unity of invention

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shall be fulfilled only when there is a technical relationship among those invention involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

- (b) An international or a national stage application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of the following combinations of categories:
 - a product and a process specially adapted for the manufacture of said product; or
 - (2) a product and a process of use of said product; or
 - (3) a product, a process specially adapted for the manufacture of the said product, and a use of the said product; or
 - (4) a process and an apparatus or means specifically designed for carrying out said process; or
 - (5) a product, a process specially adapted for the manufacture of the said product and an apparatus or means specifically designed for carrying out said process.
- (c) If an application contains claims to more or less than one of the combinations of categories of invention set forth in paragraph (b) of this section, unity of invention might not be present.

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The groups of invention fall within category (3) a product, a process specially adapted for the manufacture of the said product, and a use of the said product.

PCT Rule 13.2 does not provide for multiple compositions or multiple methods of use within a single application. Thus, the first appearing composition (Group I) is combined with a corresponding first method of making (Group III) and a corresponding first method of use (Group VII) and the additional composition and method claims each constitute a separate group.

In addition to the requirement that a group of inventions must belong to one of the specific categories provided by PCT Rule 13.2, the inventions in the category, such as a composition and a method of use of the composition, must have a special technical feature that unites them. See Patent Rules 1.475, where a special technical feature is a contribution OVER THE PRIOR ART.

The expression "special technical feature" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art (PCT Rule 13.2). Since a composite comprising retinal pigment epithelial cells grown on amniotic membrane is known in the art, see Dutt et al. (1991; IDS reference No. 15), no special technical feature unites these inventions in a category. Thus, a feature found in the prior art cannot be considered to be a special technical feature.

Thus, the inventions listed as Groups I, III and VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features as demonstrated above.

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This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

- A. Type of stem cells: adult stem cells, embryonal stem cells (claims 15, 16)
- B. <u>Type of substance</u>: growth factors, enzymes, therapeutic drug (claims 24, 29, 49)
- C. Type of disease: retinal detachment, gyrate atrophy, choroideremia (claim 45)

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: Pursuant to PCT Rule 13.2 and PCT Administrative Instructions, Annex B, Part 1(f)(I)(B)(2), the species are not art-recognized equivalents. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taeyoon Kim whose telephone number is 571-272-9041. The examiner can normally be reached on 8:00 am - 4:30 pm ET (Mon-Fri).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

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Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Taeyoon Kim Patent Examiner Art Unit 1651

Leon B Lankford, Jr Primary Examiner

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